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(71)Applicant : NIPPON DENSHI KOGYO KK

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(72)Inventor : MIYAZAKI OSAO

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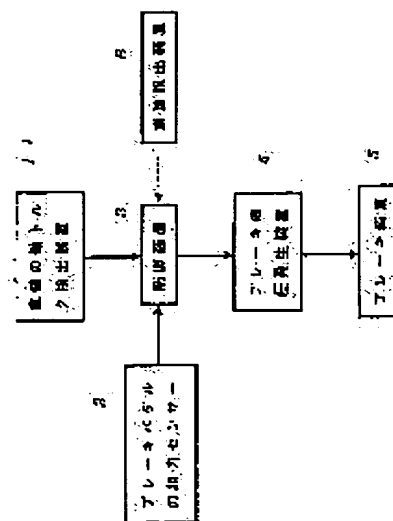
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(54) WHEEL AXLE TORQUE DETECTION DEVICE, PERPENDICULAR LOAD DETECTION DEVICE, ROAD SURFACE FRICTION COEFFICIENT DETECTION DEVICE, LOAD DETECTION DEVICE, VEHICLE ANTI-LOCK BRAKE DEVICE AND VEHICLE TRACTION CONTROL DEVICE

(57)Abstract:

PURPOSE: To shorten a brake distance, by detecting the axle torque by a carwheel, a perpendicular load and a road surface friction coefficient by means of a specific method, and inputting respective detection results into an anti-lock brake device and the traction control device of a vehicle.

CONSTITUTION: A brake pedal stepping-on strength sensor 2, a car speed detection device 6 and a carwheel axle torque detection device 11 which is made up by being equipped with a means measuring the contortion of a vehicle axle or a means measuring the contortion of the vicinity of calipers at a vehicle carwheel disk brake mechanism, are equipped, and the output signals from these are inputted into a controller 3. And a road surface friction coefficient μ is sought by operating and processing the output signals of the detection device 11 and a perpendicular load detection device acting on a carwheel, and at the same tie, transfer to an anti-lock brake action from an ordinary brake action is made by commencing the action of an anti-lock brake device when the force of stepping on brake has become equal to or more than a set value. And brake liquid pressure is being ascended while the ascent speed of a detection value μ keeps exceeding a predetermined reference value, and brake liquid pressure is softened or released when the ascent speed of the detection value μ has become lower than a reference value.



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